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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.
09/046,779	03/23/98	PERIWAL	2962

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EXAMINER

HAVAN, T

ART UNIT

PAPER NUMBER

2771

DATE MAILED:

11/10/99

Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner of Patents and Trademarks

Office Action Summary

Application No.
09/046,779

Applicant(s)

Periwal

Examiner

Thu Thao Havan

Group Art Unit

2771



☒ Responsive to communication(s) filed on Mar 23, 1998

☐ This action is **FINAL**.

☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11; 453 O.G. 213.

A shortened statutory period for response to this action is set to expire three month(s), or thirty days, whichever is longer, from the mailing date of this communication. Failure to respond within the period for response will cause the application to become abandoned. (35 U.S.C. § 133). Extensions of time may be obtained under the provisions of 37 CFR 1.136(a).

Disposition of Claims

☒ Claim(s) 1-46 is/are pending in the application.

Of the above, claim(s) _____ is/are withdrawn from consideration.

☒ Claim(s) 1-31 and 44-46 is/are allowed.

☒ Claim(s) 32-35, 37, and 38 is/are rejected.

☒ Claim(s) 36 and 39-43 is/are objected to.

☐ Claims _____ are subject to restriction or election requirement.

Application Papers

☐ See the attached Notice of Draftsperson's Patent Drawing Review, PTO-948.

☐ The drawing(s) filed on _____ is/are objected to by the Examiner.

☐ The proposed drawing correction, filed on _____ is ☐ approved ☐ disapproved.

☐ The specification is objected to by the Examiner.

☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. § 119

☐ Acknowledgement is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d).

☐ All ☐ Some* ☐ None of the CERTIFIED copies of the priority documents have been

☐ received.

☐ received in Application No. (Series Code/Serial Number) _____.

☐ received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

*Certified copies not received: _____

☐ Acknowledgement is made of a claim for domestic priority under 35 U.S.C. § 119(e).

Attachment(s)

☒ Notice of References Cited, PTO-892

☒ Information Disclosure Statement(s), PTO-1449, Paper No(s). 2

☐ Interview Summary, PTO-413

☐ Notice of Draftsperson's Patent Drawing Review, PTO-948

☐ Notice of Informal Patent Application, PTO-152

--- SEE OFFICE ACTION ON THE FOLLOWING PAGES ---

Art Unit: 2771

DETAILED ACTION

Drawings

1. This application has been filed with informal drawings which are acceptable for examination purposes only. Formal drawings will be required when the application is allowed.

Claim Objections

2. Claims 36 and 39-43 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless --

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

4. Claims 32-35 and 37-38 are rejected under 35 USC § 102(b) as being anticipated by Henninger et al. (US Patent No. 5,499,371).
5. As to claim 1, the prior art Henninger et al. had:

Art Unit: 2771

A.) A method for responding to an object call using a mapping unit (**column 2, lines 56-67**).

Henninger teaches an object call using a mapping unit when he discloses “an object-oriented application to automatically map information between an object-oriented application and a structured database, such as a relational database. This is done by taking into account all the semantics (implications) of an object model, such as inheritance and relationships among object classes...”

B.) The method of determining the type of object call and setting up an access plan data structure according to flags settings (**column 4, lines 45-53**). Henninger teaches flags settings when he discloses “a unique set of values for an instance.”

C.) The method of creating a command statement for accessing relational system and issuing the command statement on relational system (**column 7, lines 34-41; column 8, lines 58-66; figure 3, 5A, and 7B**). Henninger teaches the creating and issuing a command statement on relational system when he discloses “the method writes a routine which, when converted to an executable form which is then executed, creates a structured database corresponding to the database schema generated by the method.”

6. As to claims 33-34 and 37-38, Henninger et al. disclosed the object oriented system and the object call is a query (**column 9, lines 30-44; figure 5A**). A query obviously have a base select statement and a where clause.

Art Unit: 2771

7. As to claim 35, Henninger et al disclosed the step of setting up the access plan data structure according to the query flags and query details in order to access referenced objects (column 9, lines 51-59).

Allowable Subject Matter

8. Claims 1-31 and 44-46 are allowed.

9. The following is an examiner's statement of reasons for allowance: Applicants searching for an object relational mapping data structure defining a mapping between the object model and the relational model, the object relational mapping data structure produced from a declarative ORM Specification based on an ORM grammar and if an object relational mapping file has not been specified, determining an ORM identification name, retrieving an object relational mapping specification corresponding to the ORM identification name from a relational database, and using the retrieved object relational mapping specification as the identified object relational mapping specification, in combination with the other elements of the claims, was not disclosed by, would not have been obvious over, nor would have been fairly suggested by the prior art of record. The dependent claims being further limiting to the independent claim, definite, and enabled by the Specification are also allowable.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Art Unit: 2771

Conclusion

10. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.
11. Chang et al., US Patent 5,627,979 is considered relevant because it disclosed the system and method for providing a graphical user interface for mapping and accessing objects in data stores.
12. Boyer et al., US Patent 5,797,136 is considered relevant because it disclosed the optional quantifiers in relational and object-oriented views of database systems.
13. Atkinson et al., US Patent 5,706,504 is considered relevant because it disclosed the method and system for storing data objects using small object data stream.

Inquiries

14. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ms. Thu-Thao Havan whose telephone number is (703) 308-7062. The examiner can normally be reached on Monday through Thursday from 8:30 a.m. to 5:00 p.m. EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thomas Black, can be reached on (703) 305-9707.

Serial Number: 09/046,779

Page 6

Art Unit: 2771

Any response to this action should be mailed to:

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or faxed to:

(703) 308-9051, (for formal communications intended for entry)

Or:

(703) 308-5403 (for informal or draft communications, please label

"PROPOSED" or "DRAFT")

Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal Drive, Arlington, VA., Sixth Floor (Receptionist).

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (703) 308-9600.

Thu-Thao Havan


WAYNE AMSBURY
PRIMARY PATENT EXAMINER